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## NOTICE OF ALLOWANCE AND FEE(S) DUE

759

08/13/2002

ARENT FOX KINTNER PLOTKIN & KAHN, PLLC Suite 600
1050 Connecticut Avenue
Washington, DC 20036-5339

EXAMINER

NGUYEN, MINH T

ART UNIT CLASS-SUBCLASS

2816 327-170000

DATE MAILED: 08/13/2002

ſ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/921,578	08/06/2001	Hiromi Nanba	107346-00017	9647

TITLE OF INVENTION: LOW POWER CIRCUIT WITH PROPER SLEW RATE BY AUTOMATIC ADJUSTMENT OF BIAS CURRENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$300	\$1580	11/13/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

# HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

# PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

**Commissioner for Patents** Washington, D.C. 20231 (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

**Fax** 

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

08/13/2002

ARENT FOX KINTNER PLOTKIN & KAHN, PLLC

Suite 600 1050 Connecticut Avenue Washington, DC 20036-5339 Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name) (Signature (Date)

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09/921.578	08/06/2001	Hiromi Nanba	107346-00017	9647

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nonprovisional	NO	\$1280	\$300	\$1580	11/13/2002
EXAMI NGUYEN,		ART UNIT 2816	CLASS-SUBCLASS 327-170000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		2. For printing on the patent from the names of up to 3 registered or agents OR, alternatively, (2) single firm (having as a mem attorney or agent) and the name registered patent attorneys or agis listed, no name will be printed	patent attorneys ) the name of a ber a registered mes of up to 2 ents. If no name		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

(1) 111112 01 120101122	(5) 115152.1162.1162.1				
Please check the appropriate assignee category of	or categories (will not be printed on the patent)	🗅 individual	☐ corporation or other private group entit	y 🚨 government	
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):				
☐ Issue Fee	☐ A check in the amount	of the fee(s) is en	nclosed.	***************************************	
☐ Publication Fee	☐ Payment by credit care	d. Form PTO-203	8 is attached.		
☐ Advance Order - # of Copies	☐ The Commissioner is Deposit Account Numbe	hereby authorized by charge the required fee(s), or credit any overpayment, to er(enclose an extra copy of this form).			
Commissioner for Patents is requested to apply	the Issue Fee and Publication Fee (if any) or to re	-apply any previo	ously paid issue fee to the application identi	fied above.	
(Authorized Signature)	(Date)	· · · · · · · · · · · · · · · · · · ·			
other than the applicant; a registered attorne interest as shown by the records of the United This collection of information is required by obtain or retain a benefit by the public which application. Confidentiality is governed by 35 estimated to take 12 minutes to complete, incicompleted application form to the USPTO-case. Any comments on the amount of time suggestions for reducing this burden, should Patent and Trademark Office, U.S. Department.	if required) will not be accepted from anyone by or agent; or the assignee or other party in States Patent and Trademark Office.  37 CFR 1.311. The information is required to its to file (and by the USPTO to process) an U.S.C. 122 and 37 CFR 1.14. This collection is luding gathering, preparing, and submitting the Fime will vary depending upon the individual ite you require to complete this form and/or be sent to the Chief Information Officer, U.S. It of Commerce, Washington, D.C. 20231. DO ORMS TO THIS ADDRESS. SEND TO: 1231.				
Under the Paperwork Reduction Act of 199 collection of information unless it displays a vi	95, no persons are required to respond to a alid OMB control number.				



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/921,578	09/921,578 08/06/2001 Hiromi Nanba		107346-00017 9647		
7:	590 08/13/2002		EXAMINER		
	NTNER PLOTKIN	& KAHN, PLLC	NGUYEN, MINH T		
1050 Connecticut Avenue			ART UNIT	PAPER NUMBER	
Washington, DC 2	shington, DC 20036-5339		2816		
		DA	TE MAILED: 08/13/2002		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)



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09/921,578 08/06/2001 Hiromi Nanba		107346-00017 9647			
75	90 08/13/2002		EXAMINER		
	NTNER PLOTKIN &	KAHN, PLLC	NGUYEN, MINH T		
Suite 600 1050 Connecticut A	Avenue	Г	ART UNIT	PAPER NUMBER	
	ashington, DC 20036-5339				
UNITED STATES		Da	DATE MAILED: 08/13/2002		

## Notice of Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking. 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: <a href="http://www.uspto.gov/main/howtofees.htm">http://www.uspto.gov/main/howtofees.htm</a>.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2002, 37 CFR 1.18 is proposed to be revised to change the patent issue fees as set forth below. As stated above, the final fees may be a different amount, and applicant should check the web site given above when paying the fee.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))--\$655.00 By other than a small entity--\$1,310.00

(b) Issue fee for issuing a design patent:

By a small entity (Sec. 1.27(a))--\$235.00 By other than a small entity--\$470.00

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))--\$315.00 By other than a small entity--\$630.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)				
	09/921,578	NANBA ET AL.				
Notice of Allowability	Examiner	Art Unit				
	Minh Nguyen	2816				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t and MPEP 1308.	plication. If not included n will be mailed in due course. <b>THIS</b>				
<ul> <li>2.  The allowed claim(s) is/are 1-20.</li> <li>3.  The drawings filed on 06 August 2001 are accepted by the</li> <li>4.  Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>	<ul> <li>The drawings filed on 06 August 2001 are accepted by the Examiner.</li> <li>Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) □ All b) □ Some* c) □ None of the:</li> <li>1. □ Certified copies of the priority documents have been received.</li> <li>2. □ Certified copies of the priority documents have been received in Application No</li> </ul>					
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  5. Acknowledgment is made of a claim for domestic priority ur  (a) The translation of the foreign language provisional approximately acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. § 119(e) (to a provis oplication has been received. nder 35 U.S.C. §§ 120 and/or 121.	ional application).				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t	this communication to file a reply control to the his application. THIS THREE-MO	omplying with the requirements noted NTH PERIOD IS NOT EXTENDABLE.				
7. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which gives reason	itted. Note the attached EXAMINEF on(s) why the oath or declaration is	R'S AMENDMENT or NOTICE OF deficient.				
<ul> <li>8.  CORRECTED DRAWINGS must be submitted.</li> <li>(a)  including changes required by the Notice of Draftspers</li> <li>1)  hereto or 2)  to Paper No</li> <li>(b)  including changes required by the proposed drawing c</li> <li>(c)  including changes required by the attached Examiner's</li> </ul>	orrection filed, which has b	een approved by the Examiner.				
Identifying indicia such as the application number (see 37 CFR 1. of each sheet. The drawings should be filed as a separate paper	84(c)) should be written on the drawi with a transmittal letter addressed to	ngs in the top margin (not the back) the Official Draftsperson.				
9. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT FOR THE	sit of BIOLOGICAL MATERIAL r HE DEPOSIT OF BIOLOGICAL MA	must be submitted. Note the TERIAL.				
Attachment(s)						
<ul> <li>1 ☐ Notice of References Cited (PTO-892)</li> <li>3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>5 ☐ Information Disclosure Statements (PTO-1449), Paper No. 5.</li> <li>7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	4☐ Interview Summ 6☐ Examiner's Ame 8⊠ Examiner's State 9☐ Other	al Patent Application (PTO-152) ary (PTO-413), Paper No ndment/Comment ement of Reasons for Allowance TUANT. LAM PRIMARY EXAMINER				

Application/Control Number: 09/921,578

Art Unit: 2816

## REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: Claims 1-20 are allowed.

Claims 1-20 are allowed because the prior art of record fails to disclose or suggest a circuit which includes an evaluation circuit and a comparator circuit in combination for receiving the output voltages from a replica circuit at specified time intervals and performing subtractions/integrations and comparisons to generate control signal to control the second bias current in the replica circuit as recited in claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Nguyen whose telephone number is 703-306-9179. The examiner can normally be reached on Monday - Thursday 7:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 703-308-4876. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Art Unit: 2816

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TUANT. LAM

MN

August 8, 2002